

Application No.: 10/809,152

Docket No.: MWS-104

AMENDMENTS TO THE CLAIMS

Please amend the pending claims as follows:

1. (Currently Amended) An electronic device readable storage medium holding storing
electronic device executable ~~steps~~ instructions for managing a graphical interface, for a method,
~~said method~~ the medium comprising the steps of:

instructions for providing a graphical interface;

instructions for providing at least one hardware object accessible to said electronic
device, where the hardware object representative of ~~represents~~ a hardware device and is depicted
in said graphical interface, the hardware object configured to be interactive with said hardware
device and to enable communication between said graphical interface and said hardware device;
~~and~~

instructions for providing at least one of the group of a software object and an analysis
object;

wherein said software object is representative of a software device accessible to
said electronic device, where the software object is depicted in said graphical interface, and is
configured to be interactive with said software device and to enable communication between
said graphical interface and said software device; ~~and~~

wherein said hardware device and said software device are accessible through the
graphical interface;

wherein said analysis object is adapted to communicate with at least one of said
hardware object and said software object for analysis of data from at least one of said hardware
object and said software object; and

instructions for displaying said hardware object and said software object to a user.

2. (Currently Amended) The electronic device readable storage medium of claim 1,
wherein ~~said step of~~ providing at least one of the group of a software object and an analysis
object provides a software object.

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3. (Currently Amended) The electronic device readable storage medium of claim 1, wherein ~~said step of~~ providing at least one of the group of a software object and an analysis object provides an analysis object.
4. (Currently Amended) The electronic device readable storage medium of claim 1, ~~said method~~ further comprising:
instructions for the step of receiving program stepscode for execution by said hardware object.
5. (Currently Amended) The electronic device readable storage medium of claim 1, wherein a plurality of hardware objects are provided for a single hardware device.
6. (Currently Amended) The electronic device readable storage medium of claim 1, wherein a plurality of hardware objects are provided for a plurality of hardware devices.
7. (Currently Amended) The electronic device readable storage medium of claim 1, ~~said method~~ further comprising the steps of:
instructions for scanning for available hardware; and
instructions for creating a hardware object for each hardware device detected and not already associated with a hardware object.
8. (Currently Amended) The electronic device readable storage medium of claim 7, wherein ~~said step of~~ instructions for scanning involves the step of instructions for receiving user-defined commands to be sent to said hardware device to attempt to identify said hardware device.
9. (Currently Amended) The electronic device readable storage medium of claim 1, wherein said analysis object filters data.
10. (Currently Amended) The electronic device readable storage medium of claim 1, wherein said analysis object plots data.

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11. (Canceled)

12. (Currently Amended) The electronic device readable storage medium of claim 1, wherein at least one of ~~said steps of~~ instructions for providing at least one hardware object and providing at least one software object further comprises ~~the step of~~ instructions for accessing at least one of a hardware object and a software object located on a remote electronic device.

13. (Currently Amended) The electronic device readable storage medium of claim 12, wherein ~~said step of~~ instructions for accessing is performed through a web page.

14. (Currently Amended) The electronic device readable storage medium of claim 12, wherein ~~said step of~~ instructions for accessing is performed over a network.

15. (Currently Amended) The electronic device readable storage medium of claim 14, wherein ~~said step of~~ instructions for accessing is performed by passing MATLAB commands over said network in a MATLAB environment.

16. (Currently Amended) The electronic device readable storage medium of claim 1, ~~said method~~ further comprising:
the step of instructions for modifying at least one of said hardware object and said software object.

17. (Currently Amended) The electronic device readable storage medium of claim 16, wherein ~~said step of~~ modifying specifies a protocol for use by said hardware object for communication with said hardware device.

18. (Currently Amended) The electronic device readable storage medium of claim 16, wherein ~~said step of~~ modifying modifies a value stored in an array of an array-based environment.

19. (Currently Amended) The electronic device readable storage medium of claim 1, ~~said method~~ further comprising:

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instructions for the step of modifying a value stored in an array of an array-based environment, thereby modifying at least one of said hardware object and said software object.

20. (Currently Amended) The electronic device readable storage medium of claim 1, ~~said method~~ further comprising:

~~the step of instructions for~~ exporting data from said graphical interface to an array-based environment.

21. (Currently Amended) The electronic device readable storage medium of claim 1, ~~said method~~ further comprising:

~~the step of instructions for~~ converting user actions with the graphical interface into code.

22. (Currently Amended) The electronic device readable storage medium of claim 21, wherein the code is created in a MATLAB environment ~~MATLAB code~~.

23. (Currently Amended) The electronic device readable storage medium of claim 21, wherein the code comprises steps to create an analysis object, configure the analysis object and write and read data from the analysis object.

24. (Currently Amended) The electronic device readable storage medium of claim 21, wherein the code comprises an analysis routine.

25. (Currently Amended) The electronic device readable storage medium of claim 1, wherein said graphical interface is implemented with an extensible API.

26. (Currently Amended) The electronic device readable storage medium of claim 1, ~~said method~~ further comprising:

instructions for ~~the step of~~ generating an analysis object that can be used in MATLAB.

27. (Currently Amended) The electronic device readable storage medium of claim 1, ~~said method~~ further comprising:

instructions for ~~the step of~~ generating an analysis object that can be used in SIMULINK.

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28. (Currently Amended) The electronic device readable storage medium of claim 1, wherein said graphical interface is adapted to operate on a plurality of operating systems.
29. (Currently Amended) The electronic device readable storage medium of claim 1, wherein said graphical interface comprises a tree view, wherein said tree view groups said hardware objects and said software objects by a functionality characteristic.
30. (Currently Amended) A method for managing an interface, said method comprising ~~the steps of:~~
providing a graphical interface;
providing at least one hardware object accessible to said electronic device, where the hardware object represents ~~representative of a hardware device and is depicted in said graphical interface, the hardware object configured to be interactive with said hardware device and to enable communication between said graphical interface and said hardware device; and~~
providing at least one software object, representative of a software device accessible to said electronic device, where the software object is ~~and depicted in said graphical interface, the software object and is configured to be interactive with said software device and to enable communication between said graphical interface and said software device;~~
wherein said hardware device and said software device are accessible through the graphical interface; and
displaying said hardware object and said software object to a user.
31. (Currently Amended) The method of claim 30, further comprising:
~~the step of receiving program steps~~ code for execution by said hardware object.
32. (Original) The method of claim 30, wherein a plurality of hardware objects are provided for a single hardware device.
33. (Original) The method of claim 30, wherein a plurality of hardware objects are provided for a plurality of hardware devices.

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34. (Currently Amended) The method of claim 30, further comprising ~~the steps of~~:
scanning for available hardware; and
creating a hardware object for each hardware device detected and not already associated with a hardware object.
35. (Currently Amended) The method of claim 34, wherein ~~said step of scanning~~ involves the step of receiving user-defined commands to be sent to said hardware device to attempt to identify said hardware device.
36. (Currently Amended) The method of claim 30, further comprising:
~~the step of providing~~ an analysis object adapted to communicate with at least one of said hardware object and said software object.
37. (Canceled)
38. (Currently Amended) The method of claim 30, wherein at least one of ~~said steps of~~ providing at least one hardware object and providing at least one software object further comprises ~~the step of~~ accessing at least one of a hardware object and a software object located on a remote electronic device.
39. (Currently Amended) The method of claim 30, further comprising:
~~the step of~~ modifying at least one of said hardware object and said software object.
40. (Currently Amended) The method of claim 39, wherein ~~said step of modifying~~ specifies a protocol for use by said hardware object for communication with said hardware device.
41. (Currently Amended) The method of claim 39, wherein ~~said step of modifying~~ modifies a value stored in an array of an array-based environment.
42. (Currently Amended) The method of claim 30, further comprising ~~the step of~~ generating an analysis object that can be used in MATLAB.

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43. (Currently Amended) The method of claim 30, further comprising ~~the step of~~ generating an analysis object that can be used in SIMULINK.

44. (Currently Amended) In an electronic device, a system for managing interfaces, comprising:

a graphical interface;

at least one hardware object accessible to said electronic device, where the hardware object represents, representative of a hardware device and is depicted in said graphical interface, the hardware object configured to be interactive with said hardware device and to enable communication between said graphical interface and said hardware device; and

at least one software object, representative of a software device accessible to said electronic device, where the software object is, and depicted in said graphical interface, the software object and is configured to be interactive with said software device and to enable communication between said graphical interface and said software device;

wherein said hardware device and said software device are accessible through the graphical interface; and

a display device to display said hardware object and said software object to a user.

45. (Currently Amended) The system of claim 44, wherein said system receives ~~program~~ stepscode for execution by said hardware object.

46. (Previously Presented) The system of claim 44, wherein a plurality of hardware objects are provided for a single hardware device.

47. (Previously Presented) The system of claim 44, wherein a plurality of hardware objects are provided for a plurality of hardware devices.

48. (Previously Presented) The system of claim 44, wherein said system scans for available hardware, and creates a hardware object for each hardware device detected and not already associated with a hardware object.

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49. (Previously Presented) The system of claim 48, wherein said system scans by receiving user-defined commands to be sent to said hardware device to attempt to identify said hardware device.

50. (Previously Presented) The system of claim 44, wherein an analysis object is provided adapted to communicate with at least one of said hardware object and said software object.

51. (Canceled)

52. (Previously Presented) The system of claim 44, wherein at least one of a hardware object and a software object are located on a remote electronic device.

53. (Previously Presented) The system of claim 44, at least one of said hardware object and said software object are modified by the system.

54. (Previously Presented) The system of claim 44, wherein at least one of said hardware object and said software object are modified by the system such that a protocol is specified for use by said hardware object for communication with said hardware device.

55. (Previously Presented) The system of claim 44, wherein at least one of said hardware object and said software object are modified by the system such that a value is stored in an array of an array-based environment.